

Linda M. Stroud, Ph.D.; National Registry of Certified Chemists Chemical Hygiene Officer
Manager of Environmental Health & Safety
Advanced Safety Certification
Bloodborne Pathogen Trainer
First Aid, CPR and AED Trainer
OSHA General Industry Outreach Trainer
President, S&SCS
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Fayetteville, NC 28314

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Expert Witness in a Laboratory Accident Case
Science Safety Consultant to Mesa AZ School System, Colorado State Dept of Education
Science Safety Consultant to South Carolina and Hawaii State Departments of Education
Science Safety Consultant to North Carolina State Department of Education & North Carolina Public Schools
Safety Consultant to the National Inventor's Hall of Fame Foundation, Akron, OH
Certified Science Teacher, Mentor Teacher, NIOSH-Based Science Laboratory Safety Trainer
40 LEAs Science Safety Professional Development Provider/C²S²LP (Customized Comprehensive Science Safety Laboratory Program)
Over 250 Middle/Secondary Schools Assessed in 30 LEAs (Local Education Agency)
6 Summer Science Laboratory Facilitators Seminars-1 week (65 LEAs)
Level 2 Building a Sustainable Science Safety Program Seminar (1 week-14 LEAs)
Made presentations to the NC Legislative ERC on Mercury, April 2006
Made presentation to the Governor's Hazardous Waste Task Force on Hazardous Wastes in NC Public Schools, November, 2006
Over 350 contact classroom hours in safety courses

Professional Summary

Sigma Xi Executive Board Member
Adjunct Professor of Science Education-UNC-Pembroke
Consultant/President/Owner Science & Safety Consulting Services, Inc
Retired Chemistry/Biology Teacher:
Science Safety Trainer for K-12 school personnel, University Methods Professors 2002 to present
Conduct 1-week Summer Science Safety Seminars for LEA personnel & College / University Science Education Professors
Develop Customized Comprehensive Science Laboratory Safety Programs for LEAs, Colleges, Universities.
Professional Development provider (meets NCDPI State Board of Education HSP-F-107 Science Laboratory Safety Requirements) in Science Safety
NC Total Science Safety System Trainer for Schools (also have done SC TSSS)
Administrative Assistant (Summer,1997) for the Assistant Secretary of NC Department of Commerce for Regional Operations
Einstein Fellow serving a joint appointment in US Senator Jeff Bingaman's Office and the White House Office of Science and Technology Policy - Developed policy documents on standards-based education/Goals 2000 for the Clinton Administration, Assisted Senator Bingaman's education staff with Goals 2000, Advanced Placement and other education issues.
Experienced chemistry/biology university and secondary educator, researcher, administrator and program leader with 34 years of experience. Creative in developing chemistry/biology curriculum, education programs and chemical demonstrations
As a Woodrow Wilson Fellow traveled nationally to teach chemistry teachers and contributed to professional publications
Effective in working with committee members; leading, facilitating and introducing new concepts
Presenter before national and state education and scientific organization meetings
Member of the North Carolina Education Standards & Accountability Commission, involved in establishing standards and accountability criteria for public schools
National and state education evaluator for National Science Education Standards

Past President of North Carolina Science Teachers Association, and NCSTA Education Policy Legislative Liaison
Former NCSSM Board of Trustees Member

Education

Ph.D. Botany and Soils, 1976, North Carolina State University, Raleigh, NC
M.S. Botany and Soils, 1969, North Carolina State University, Raleigh, NC
B.S. Science and Biology, 1963, East Carolina University, Greenville, NC

Professional Development

OSHA Authorized Trainer Course, July 2011
First Aid, CPR and AED Course, April 2010
GHS Webinar, March 2010
Laboratory Fume Hoods Course, September 2010
Laboratory Fume Hood Safety Training, September 2009
Hazardous Waste Management for Generators, September, 2008
Prevention Strategies for Electrical Hazards Training Program, July, 2008
OSHA 501 30 Hour General Industry Course, Safety & Health Council of NC, March 2008
Bloodborne Pathogen Trainer Certification Course, Safety & Health Council of NC, February, 2008
Principles of OSH Course, 30 hrs, Safety & Health Council of NC, January, 2008
Electrical Safety - 4 hours Safety & Health Council of NC, December 19, 2007
OSHA Recordkeeping - 4 hours Safety & Health Council of NC, December 17, 2007
Effective Laboratory Safety Program - 7 hours ACS SERMACS, October 27, 2007
Industrial Hygiene - 30 hours, Safety & Health Council of NC, September 24-28, 2007
Safety Training Methods -30 Hrs, Safety & Health Council of NC, August 22-31, 2007
DOT Hazardous Materials 8-Hr Employee Awareness Workshop -Safety & Health Council of NC, July 31, 2007
NC 77th Statewide Safety Conference, May 16-18, 2007
ACS Short Course in Science Laboratory Safety -20 hrs, Dec 6-8, 2006
Charles A. Dana Center, UT-Austin HAZCOM Training of Trainers, 2006
ACS, Division of Chemical Health & Safety Workshops, Memphis, TN 2005
NIOSH Training, NIOSH, John Palassis, Cincinnati, OH, 2005
OSHA Safety Update 2004
Laboratory Safety Institute Course 2003
North Carolina Total Science Safety CD Training 2002
Laboratory Safety Instructor and NIOSH-based Laboratory Safety Trainer 2001
Teacher Trainer, North Carolina Teachers Academy, NCPDI, 1994-95
Teaching Fellow, Woodrow Wilson Foundation & Dreyfus Master Teacher Program, Princeton University, Four weeks, Summer, 1988-1993. Biochemistry and Environmental Chemistry in 88 & 89 Institutes. As a team leader/member, traveled four summers (90-93) to lead four one week institutes throughout the US and Puerto Rico to improve secondary chemistry teaching. Author and contributor to publications incorporating biochemical and environmental examples (laboratories, lectures, and demonstrations) into the regular high school curriculum
Mentor Training and Practicum, two semesters, 1987. Wake County Schools. Licensure by NCDPI as mentor trainer
NSF Program Hope College, Holland, MI, Summer, 1985. Honors Chemistry for Secondary Chemistry Teachers Institute for Chemical Education, Uni-WI-Madison Summer, 1984. Program updating in fundamental chemistry principles, laboratories, demonstrations, and chemical education for secondary chemistry teachers

Work Experience

Adjunct Professor of Science Education at UNC-Pembroke, 2005-present
Customized Comprehensive Science Safety Trainer, S&SCS 2004-present
Total Science Safety Systems Trainer, Laboratory Safety Instructor/Consultant for various NC LEAs, MSP Grant Consultant for NCDPI 2004-2007
Broughton High School, Raleigh, NC-1984-2002; Retired Chemistry teacher-taught all levels/science courses
Adjunct Assistant Professor -North Carolina State University School of Education, Raleigh, NC – 1993-1996
North Carolina Teacher Academy Trainer: 1994-1995

Einstein Fellow-Triangle Coalition for Science, Mathematics, & Technology (Sabbatical) Assigned to White House Office of Science and Technology Policy January-May, 1996. Developed policy documents on standards-based education/Goals 2000 for the Clinton Administration. Attended numerous scientific, education, and committee meetings Frequently assigned to attend, and write summary of meetings for Dr. Joyce Justus, mentor at OSTP. Made a presentation to OSTP staff on my portfolio of documents for the Clinton Administration. Interacted with staff at NASA, Department of Energy, Department of Education, National Science Foundation through meetings and other Einstein Fellows assigned to these agencies and Congress. Interacted with staff and Executive Directors of NSTA, NCTM, National Academy of Science, ITEA, and ISTEA. Assigned to Senator Jeff Bingaman's Office-(New Mexico) June-August, 1996; Assisted his education staff member with Goals 2000 issues and meetings. Senator Bingaman was on the Goals 2000 Panel- worked on Advanced Placement and other education issues. Attended and helped organize a hearing on cost of higher education that Senator Bingaman and Representative Gephart co-chaired.

Attended Senate Technology Committee Chair - Senator Jeffords

Assisted Bingaman's office staff in Albuquerque on developing a potential publication on standards based education for New Mexicans

D.H. Conley High School, Greenville, NC - August 1979 to June 1984

Wake Forest High School, Wake County Schools, Wake Forest, NC-1964-65

John A. Wilkinson High School, Belhaven, NC- 1963-64

Awards & Recognition

Vi Hunsucker Outstanding Science Educator Award, 2010

Recipient of Albert Einstein Educator Fellowship-1996

Recipient of James Batten Outstanding Educator Award, School of Education, East Carolina University 1995

Outstanding Presidential Service Award, North Carolina Science Teachers Association 1994

North Carolina and National Presidential Awardee for Excellence in Science Teaching, NSF 1991

Outstanding Science Teacher Award, Sigma Xi, North Carolina State University 1991

Tandy Technology Scholar National Awardee, Tandy Scholars Program, Texas Christian University 1990

Governor's Award for Excellence in Science Teaching, North Carolina Business Committee for Education 1989

North Carolina State University, Raleigh, NC, 1965-79 Graduate Research Assistant, Research Associate, Botany Department Initiator, writer, co-principal investigator and administrator of a \$750K grant on Environmental Impact on Brunswick County Saltmarshes by Carolina Power & Light Nuclear Plant, 1972-1979. Testified before Nuclear Regulatory

Professional Committees, Organizations and Offices

ACS Committee on Chemical Safety

ACS Division Chemical Health & Safety Executive Committee,

ACS Environment, Health & Safety Task Force 2008-2011

Division of Chemical Health & Safety Executive Committee – Program Co-chair

National Science Teachers Association Science Safety Advisory Committee, June 2008

National Science Teachers Association Science Safety Advisory Committee Chair 2009 & 2010

Sigma Xi Chapter NCSU, 2007

National Presidential Awards Selection Committee Reader 2004-2005

Assistant for NC Presidential Awards Program and reader for National Presidential Awards Program

National Science Teachers Assoc. Council Member District VI-2000-02

Treasurer of Assoc. of Presidential Awardees for Excellence in Science Teaching (APAST) 1998-2002

North Carolina Education Standards & Accountability Commission - **(4-year appointment by Senate President Pro Tempore Marc Basnight)**, Executive and Accountability Committees

North Carolina School of Science & Mathematics Board of Trustees- Fiscal Planning and Development Committee Chair, Executive Committee, Board of Trustees Orientation Committee Chair, Race Relations Ad Hoc Committee

American Chemical Society Member and North Carolina ACS Section participant - NC Section High School Committee Chair, Tar Helium Ad Manager, Local Section National Chemistry Week Committee,

105th North Carolina ACS Section Conference, ACS, NCSU, High School Program Committee Chair

North Carolina Teachers Association - Past President, President, President Elect (1992-1994), District Director, Board of Directors, Legislative Committee Chair, Regional Conference Co-chair (1990-1991), State Convention Chair, Local Arrangement Chair for State Convention

Center for Mathematics & Science Education, UNC-Chapel Hill Advisory Board & Eisenhower Grant

Proposal Reviewer

Coordinated/administered laboratory preparation and training of teaching assistant
Reviewer for scientific journals and NSF grants on estuarine studies
Presenter and convener at numerous state, regional, national and international scientific meetings

Organizational Memberships

Affiliate & Honorary member of Council of State Supervisors
American Chemical Society
American Chemical Society Division of Chemical Health & Safety
American Chemical Society Division of Chemical Education
Association of Presidential Awardees in Science
Mid-State Safety Council of the North Carolina Regional Councils (NC Industrial Commission)
National Safety Council
National Science Teachers Association
North Carolina Association of Local Governmental Employee Safety Officials
North Carolina Science Education Leaders Association
North Carolina Science Teachers Association
Safety & Health Council of North Carolina

Professional Publications and Papers

Stroud, Linda M. Lab Safety - Prevention of Laboratory Accidents. The Science Reflector (2011) Vol. 40, No. 1, Winter 2011. Stroud, Linda M. Lab Safety - Laboratory Safety. The Science Reflector (2010) Vol. 39, No. 3, Fall 2010. Stroud, Linda M. Lab Safety - [Training Requirements](#). The Science Reflector (2010) Vol. 39, No. 2, Spring 2010. Stroud, Linda M. [Lab Safety - Goggle Cleaning](#). The Science Reflector (2010) Vol. 39, No. 1, Winter 2010. Stroud, Linda M. [K-16 Science Laboratory Safety](#) The Science Reflector (2009) Vol. 38, No. 3, Fall 2009. Stroud, Linda M. [K-16 Science Laboratory Safety](#) The Science Reflector (2009) Vol. 38, No. 2, Summer 2009. Stroud, Linda M. [Do You Know the Law?](#) The Science Reflector (2009) Vol. 38, No. 1, Winter 2009. Stroud, Linda M. and Kenneth Roy. [OSHA Training Requirements and Guidelines for K-14 School Personnel](#). NSTA Safety in the Science Classroom (2009).

Stroud, Linda M., 2008. Legal Requirements of OSHA Regulations, Science Reflector, Vol. 37 No. 1.
Stroud, Linda M., 2008. Science Laboratory Safety Manual, Second Edition
Stroud, Linda M., 2008. MSDS Chart
Eye Protection Options Poster, 2008
Stroud, Linda M. and Fred L. Beyer, Jr. 2008. Chemical Management System CD. Second Edition
Stroud, Linda M. and Fred L. Beyer, Jr. 2007. Chemical Management System CD.
Stroud, Linda M., Clara Stallings, and Todd J Korbusieski. Implementation of a science laboratory safety program in North Carolina Schools. J. Chem. Health & Safety (2007), Vol. 14, No. 3. May/June 2007. 20-30.
Stroud, Linda M., 2006. Science Laboratory Safety Manual
Stroud, Linda M., 2006. S&SCS Chemical Inventory CD
Stroud, Linda M., 2005 Science Laboratory Safety Powerpoint for Professional Development
Stroud, Linda, Denise L. Creech, and John C. Hugo. 1990. Effects of NO_x and SO₂ on Plant Pigments. Chem 13 News, April. 8-11

Blum, U., E.D. Seneca, and L.M. Stroud. 1978. Photosynthesis and respiration of *Spartina* and *Juncus* salt marshes in North Carolina: some models. Estuaries 1:228-238

Cammen, Leon M., Udo Blum, Ernest D. Seneca, and Linda M. Stroud. 1980 Energy Flow through the Fiddler Crabs, *Uca pugnax* and *Uca minax* and the Marsh Periwinkle, *Littorina irrorata* in a North Carolina Salt Marsh. The American Midland Naturalist, 103 (2): 238-250

Lytle, C.F. and L.M. Stroud. 1975. Studies in Biological Sciences (Rev. Ed.). Contemporary Publishing Company, Raleigh, North Carolina

Seneca, E.D., L.M. Stroud, Udo Blum, and G.R. Noggle. 1976. An analysis of Dutchman Creek, Oak Island, Snow's Marsh, and Walden Creek marshes, Brunswick county, North Carolina, 1975-76. Third Annual Report to CP&L, North Carolina State University, Raleigh, North Carolina

Stroud, Linda M. 1975. Belowground productivity of *Spartina alterniflora* in two natural North Carolina marshes. Third International Estuarine Research Federation Meeting, Galveston, Texas

Stroud, Linda M. and Arthur W. Cooper. 1968. Color-infrared aerial photographic interpretation and net primary productivity of regularly-flooded North Carolina salt marsh. Water Resources Research Institute. North Carolina State University at Raleigh. 14:86 pp